



Cribari Memorial Bridge Project Advisory Committee (PAC) Meeting #4

CTDOT State Project # 158-214

January 30, 2019

CRIBARI MEMORIAL BRIDGE

Meeting Agenda



- Welcome & Introductions
- Ground Rules & PAC Role Refresher
- PAC Meeting Purpose
- NEW Binder Contents
- What We've Heard
- Conservation & Off-Alignment Alternatives
 - Discussion & PAC Workshop
- Next PAC Meeting



CRIBARI MEMORIAL BRIDGE

Ground Rules Refresher



Meetings will

- Start and end on time
- Focus on input from PAC members
- Showcase diverse perspectives



PAC members will

- Be courteous and respect all opinions. Rude behavior will not be tolerated
- Have one speaker at a time
- Provide honest input
- Respect recommendations discussed at previous meetings
- Review materials provided in advance

Purpose: Information Exchange



What Is Our Purpose Tonight?

To solicit PAC input for Conservation
and Off-alignment alternatives

NEW Binder materials

- Comparison matrix
- Conservation & Off-alignment alternatives
- Meeting #3 summary
- Meeting #4 presentation





What You Have Told Us

Feedback on Rehabilitation and On-alignment Replacement Concepts

- Consider a conservation alternative
- Provide a simple method of comparing options
- Consider pedestrian mobility
- Consider travel speed
- Reduce impacts to parking in the project area
- Reduce the height and width of alternatives



CRIBARI MEMORIAL BRIDGE

Alternatives Comparison Chart



	No Build	Conservation	Rehabilitation	Replacement (On-Alignment)	Replacement (Off-Alignment)
Work Involved	<ul style="list-style-type: none"> Minor repairs performed, as required, by DOT Maintenance forces 	<ul style="list-style-type: none"> Restore bridge to its 1993 condition Repair of damaged elements Structural repair of Piers 2 and 3 	<ul style="list-style-type: none"> Repair/widening of trusses Structural repair of Piers 2 and 3 Crash-tested guide rail Water-resistant mechanical equipment Roadway barrier for bridge openings 	<ul style="list-style-type: none"> Replacement of the existing bridge with a new structure on a similar alignment 	<ul style="list-style-type: none"> Replacement of the existing bridge with a new structure on an alignment located north from the existing
Purpose and Need					
Address Structural Deficiencies	<ul style="list-style-type: none"> Repairs made; however, limited by capabilities of DOT Maintenance 	<ul style="list-style-type: none"> Load restrictions no longer required 	<ul style="list-style-type: none"> Load restrictions no longer required Widened trusses reduce chance of impact damage 	<ul style="list-style-type: none"> New structure supporting current load standards 	<ul style="list-style-type: none"> New structure supporting current load standards
Address Functional Deficiencies		<ul style="list-style-type: none"> Fixes height restriction caused by electric box 	<ul style="list-style-type: none"> Vertical height raised to 14'-3" 	<ul style="list-style-type: none"> Vertical height raised to 16'-3" (min.) Lane width increased 	<ul style="list-style-type: none"> Vertical height raised to 16'-3" (min.) Lane width increased
Increased vehicular safety			<ul style="list-style-type: none"> New barrier system for bridge openings Crash-tested railing 	<ul style="list-style-type: none"> Wider travel lanes and shoulders New barrier system for bridge openings Crash-tested railing 	<ul style="list-style-type: none"> Wider travel lanes and shoulders New barrier system for bridge openings Crash-tested railing
Increased bicycle/pedestrian safety			<ul style="list-style-type: none"> Potential widening of sidewalk * 	<ul style="list-style-type: none"> Wider sidewalks Sidewalks along both sides of bridge * Wider shoulder widths 	<ul style="list-style-type: none"> Wider sidewalks Sidewalks along both sides of bridge * Wider shoulder widths
Improved marine travel				<ul style="list-style-type: none"> Increased marine vertical clearance Faster bridge openings 	<ul style="list-style-type: none"> Increased marine vertical clearance Faster bridge openings
Considers historic character	<ul style="list-style-type: none"> Trusses remain as they are with periodic repair 	<ul style="list-style-type: none"> Trusses remain as they are with periodic repair 	<ul style="list-style-type: none"> Trusses are maintained but widened 		
Resilient to changing climate			<ul style="list-style-type: none"> Water-resistant mechanical equipment 	<ul style="list-style-type: none"> Water-resistant mechanical equipment Equipment raised from existing location 	<ul style="list-style-type: none"> Water-resistant mechanical equipment Equipment raised from existing location
Design Considerations					
Roadway Vertical Clearance	12'-10" (posted for 12'-7")	Increase from existing Bridge remains posted	14'-3"	16'-3" (min.) **	16'-3" (min.) **
Marine Vertical Clearance	Approx. 7'-0"	Approx. 7'-0"	Approx. 7'-0"	> existing **	> existing **
Lane Width	9'-9"	9'-9"	9'-9"	10' to 12' **	10' to 12' **
Bike Path/Shoulder Width	0'	0'	0'	4' to 5' **	4' to 5' **
Intersection Improvements	No change from existing	Lengthening of right turn lane leading to Riverside Ave.	Lengthening of right turn lane leading to Riverside Ave.	Lengthening of right turn lane leading to Riverside Ave.	Lengthening of right turn lane leading to Riverside Ave.
Sidewalks	<ul style="list-style-type: none"> 4'-6" sidewalk located along north side 	<ul style="list-style-type: none"> 4'-6" sidewalk located along north side 	<ul style="list-style-type: none"> 4'-6" sidewalk located along north side Potential widening of sidewalk* 	<ul style="list-style-type: none"> 1-2 sidewalks along bridge North and/or South side of bridge* 5'-6' wide sidewalks ** 	<ul style="list-style-type: none"> 1-2 sidewalks along bridge North and/or South side of bridge* 5'-6' wide sidewalks **
Bridge Openings	No change from existing	No change from existing	No change from existing	Reduced/faster bridge openings	Reduced/faster bridge openings
Rights-of-Way	No impacts	Temporary easements for temporary bridge**	Temporary easements for temporary bridge**	Temporary easements for temporary bridge**	Permanent acquisitions and temporary easements anticipated **
Wetlands/Water Quality	<ul style="list-style-type: none"> Repairs to piers Impacts as needed for maintenance 	<ul style="list-style-type: none"> Repairs to piers Installation/removal of temporary bridge** 	<ul style="list-style-type: none"> Repairs to piers Installation/removal of temporary bridge 	<ul style="list-style-type: none"> Replacement of existing bridge Installation/removal of temporary bridge 	<ul style="list-style-type: none"> Installation of new bridge Removal of existing bridge
Construction Duration	As needed for maintenance	2-3 years	2-3 years	3 years	3 years
Anticipated Structure Service Life	20-25 years	25-40 years	25-40 years	75-100 years	75-100 years

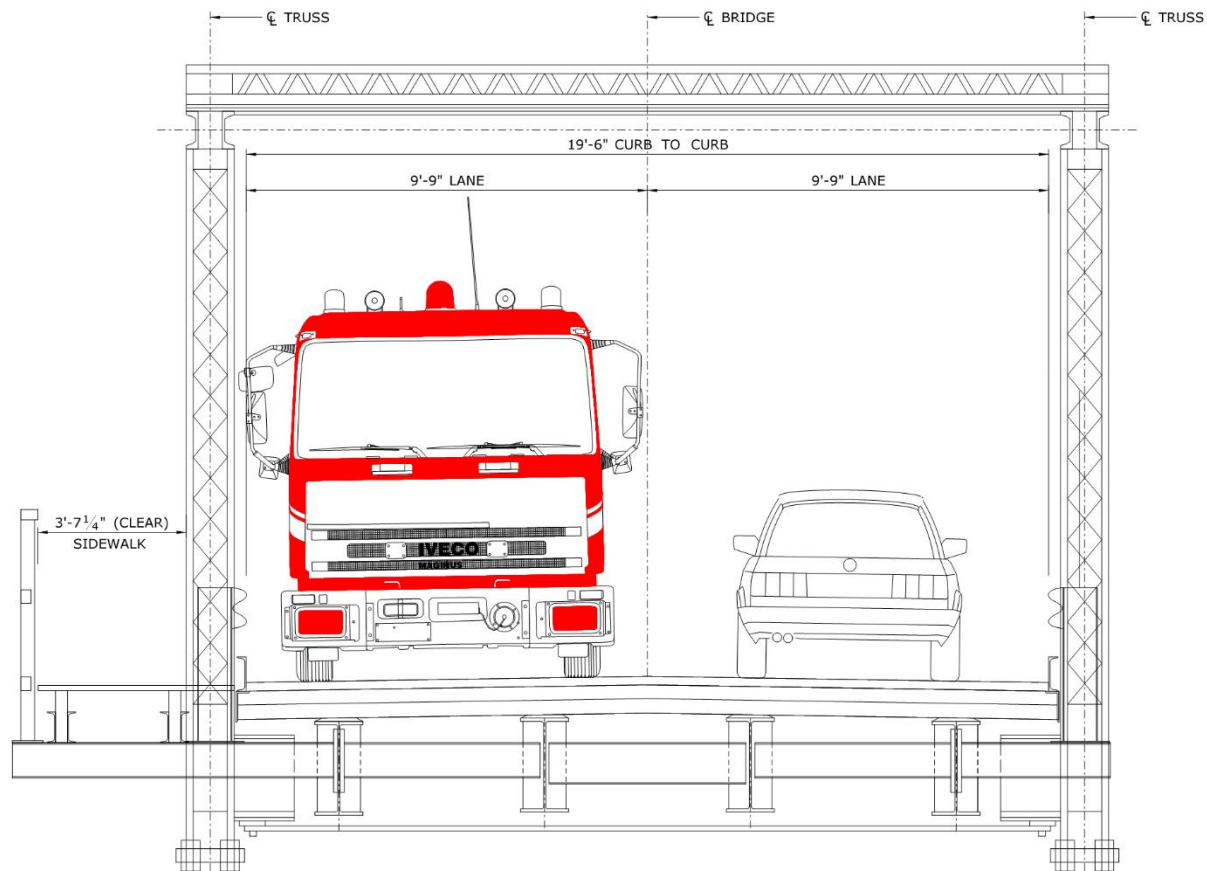
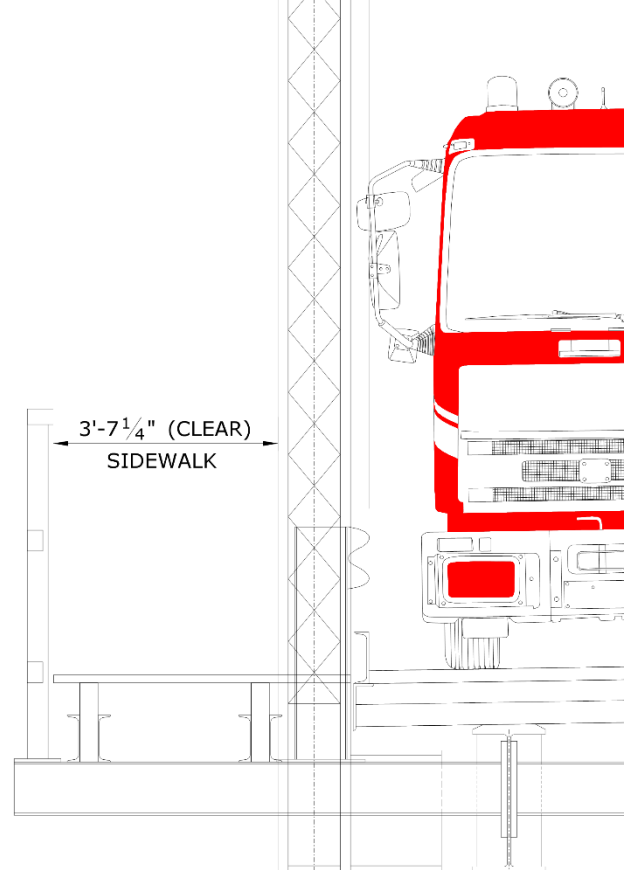
*under consideration based on PAC discussion

**exact values would be vetted out at design level if chosen

Draft Concept
For PAC Discussion



SAUGATLUCK RIVER
FLOOD ↶
EBB ↷



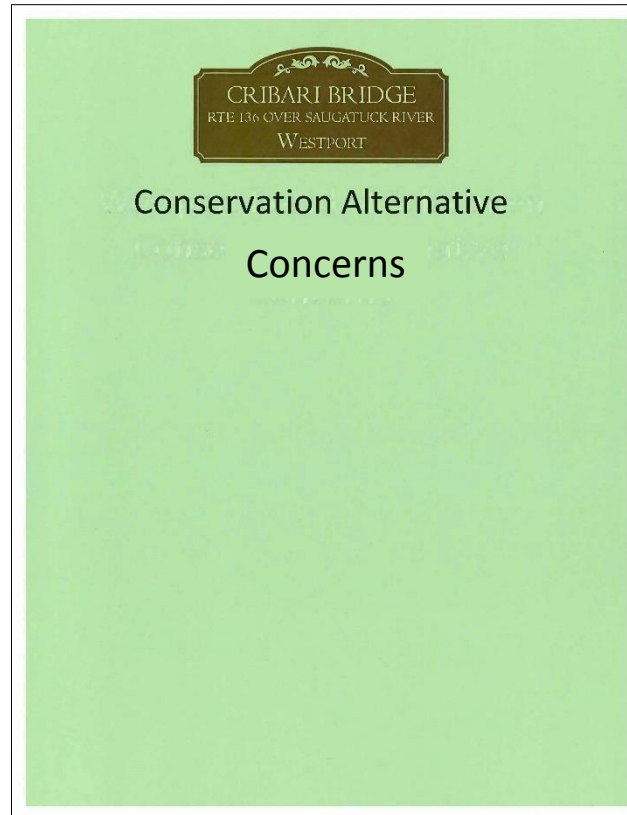
Draft Concept
For PAC Discussion

**APPROACH SPAN SECTION
CONSERVATION BRIDGE REHABILITATION CONCEPT**

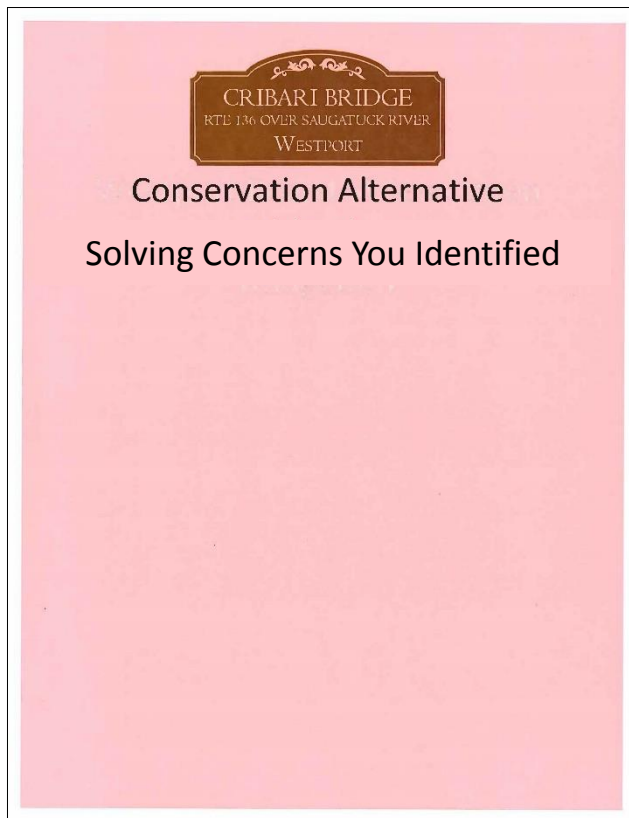
SCALE: 1/2" = 1'-0"

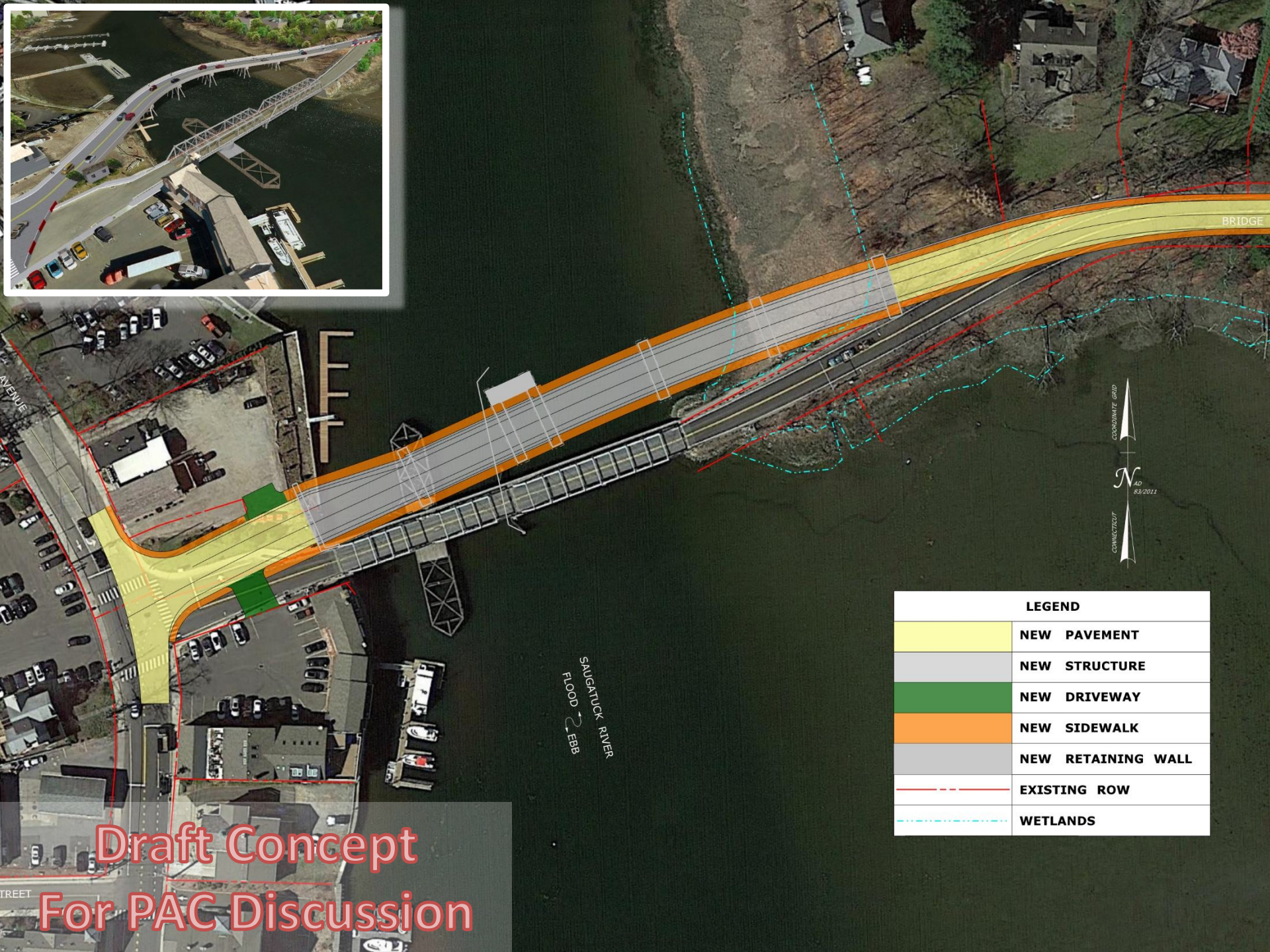


Given the information you have about the Conservation Alternative, what are your concerns? *How will this alternative affect the group you represent?*



If the Conservation Alternative were to proceed, what would you do to solve the concerns you identified?





COORDINATE GRID
 N
 AD
 8/3/2011
 CONNECTICUT

SAUGATUCK RIVER
 FLOOD EBB

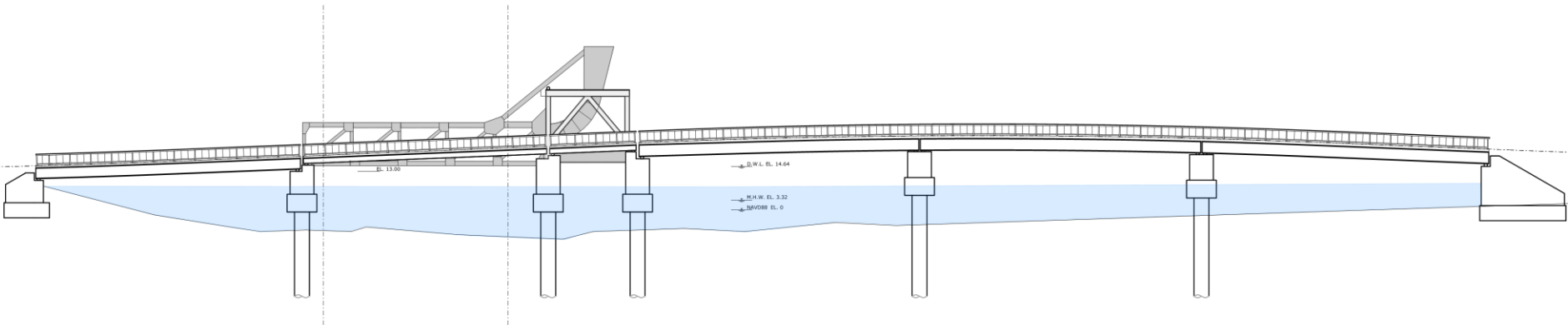
LEGEND	
	NEW PAVEMENT
	NEW STRUCTURE
	NEW DRIVEWAY
	NEW SIDEWALK
	NEW RETAINING WALL
	EXISTING ROW
	WETLANDS

Draft Concept
 For PAC Discussion

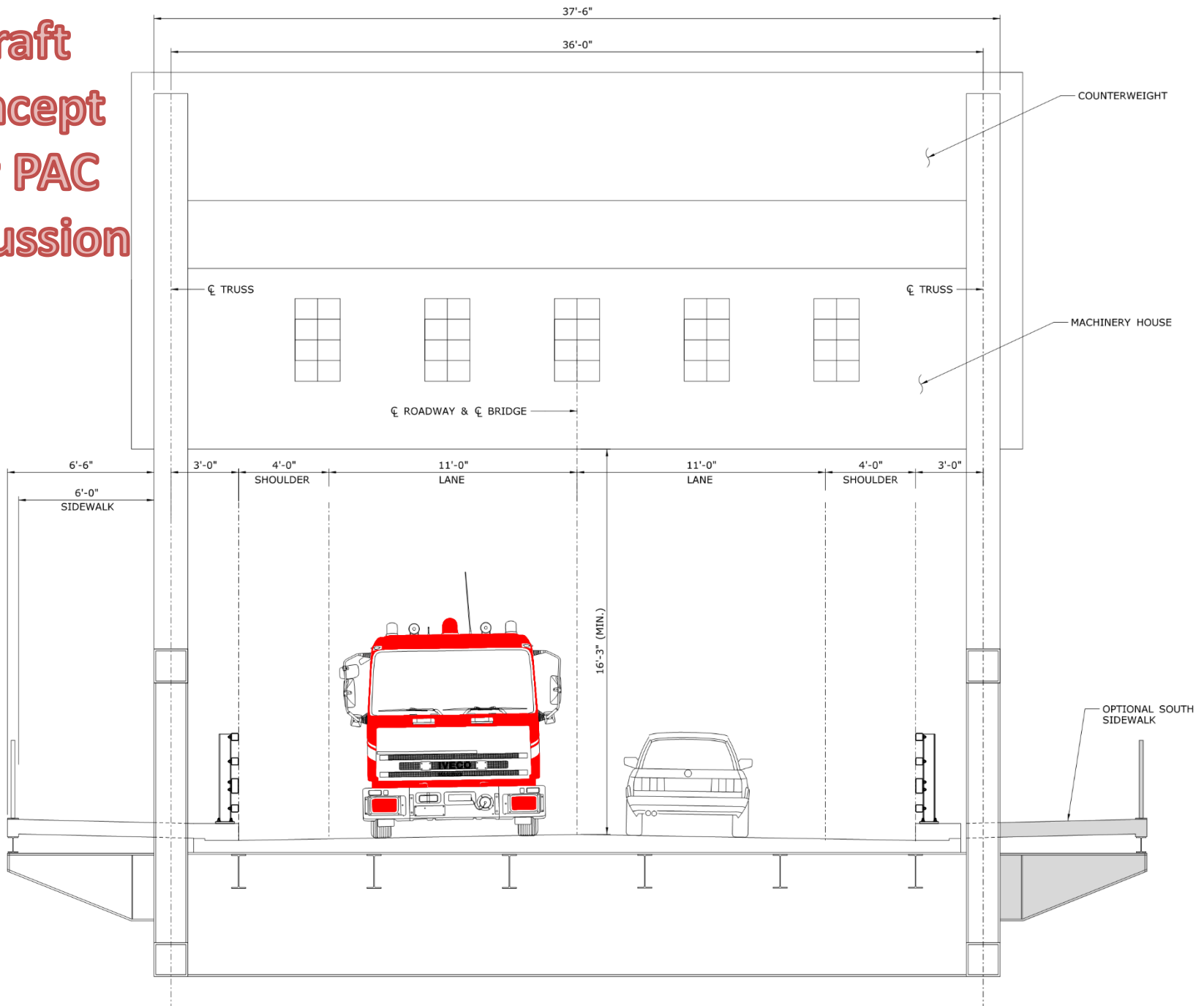
STREET

BRIDGE

Draft Concept For PAC Discussion



Draft Concept For PAC Discussion



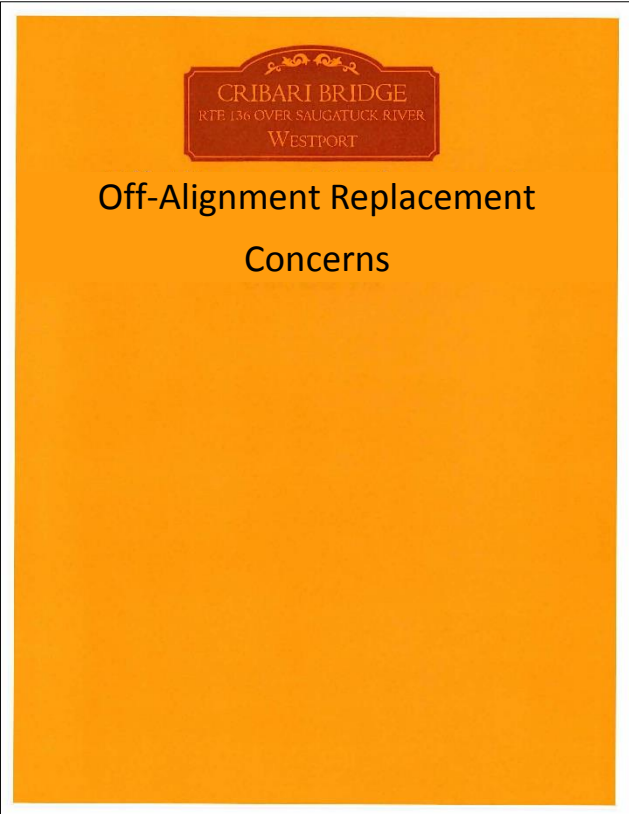
**MOVEABLE SPAN SECTION
OFF-ALIGNMENT BRIDGE REPLACEMENT CONCEPT**



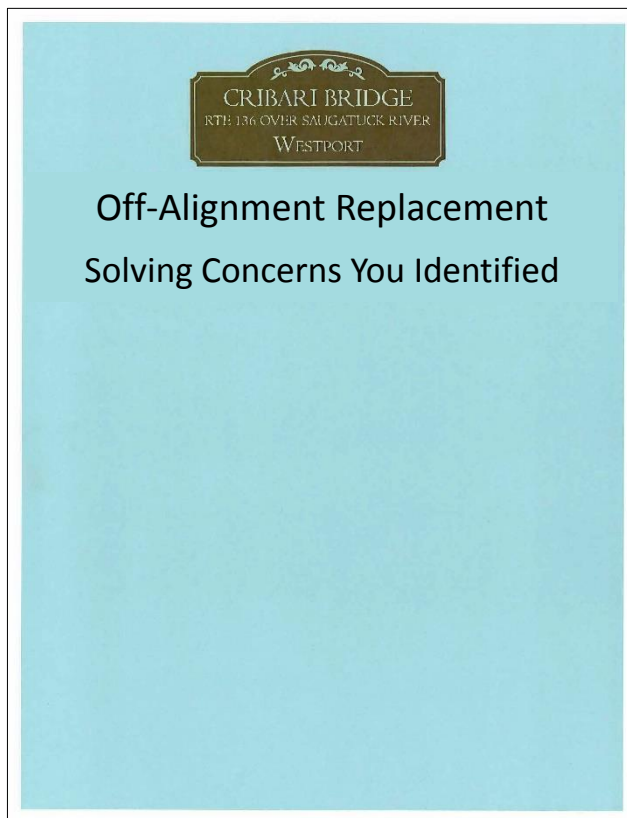
CRIBARI MEMORIAL BRIDGE Workshop



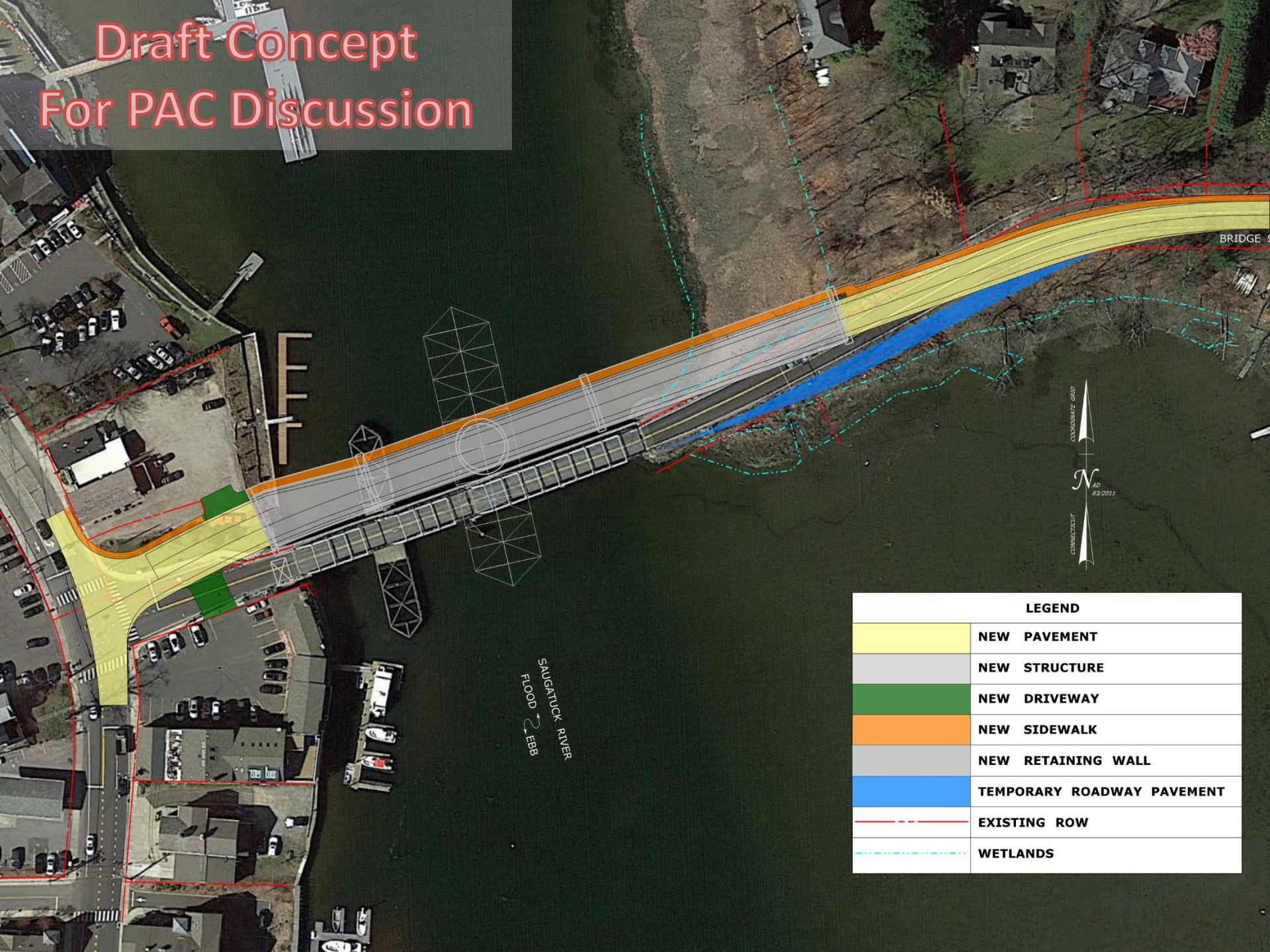
Given the information you have about the Off-alignment Replacement Alternative, what are your concerns? *How will this alternative affect the group you represent?*



If the Off-alignment Replacement Alternative were to proceed, what would you do to solve the concerns you identified?



Draft Concept For PAC Discussion



SAUGATUCK RIVER
FLOOD EBB



LEGEND	
	NEW PAVEMENT
	NEW STRUCTURE
	NEW DRIVEWAY
	NEW SIDEWALK
	NEW RETAINING WALL
	TEMPORARY ROADWAY PAVEMENT
	EXISTING ROW
	WETLANDS

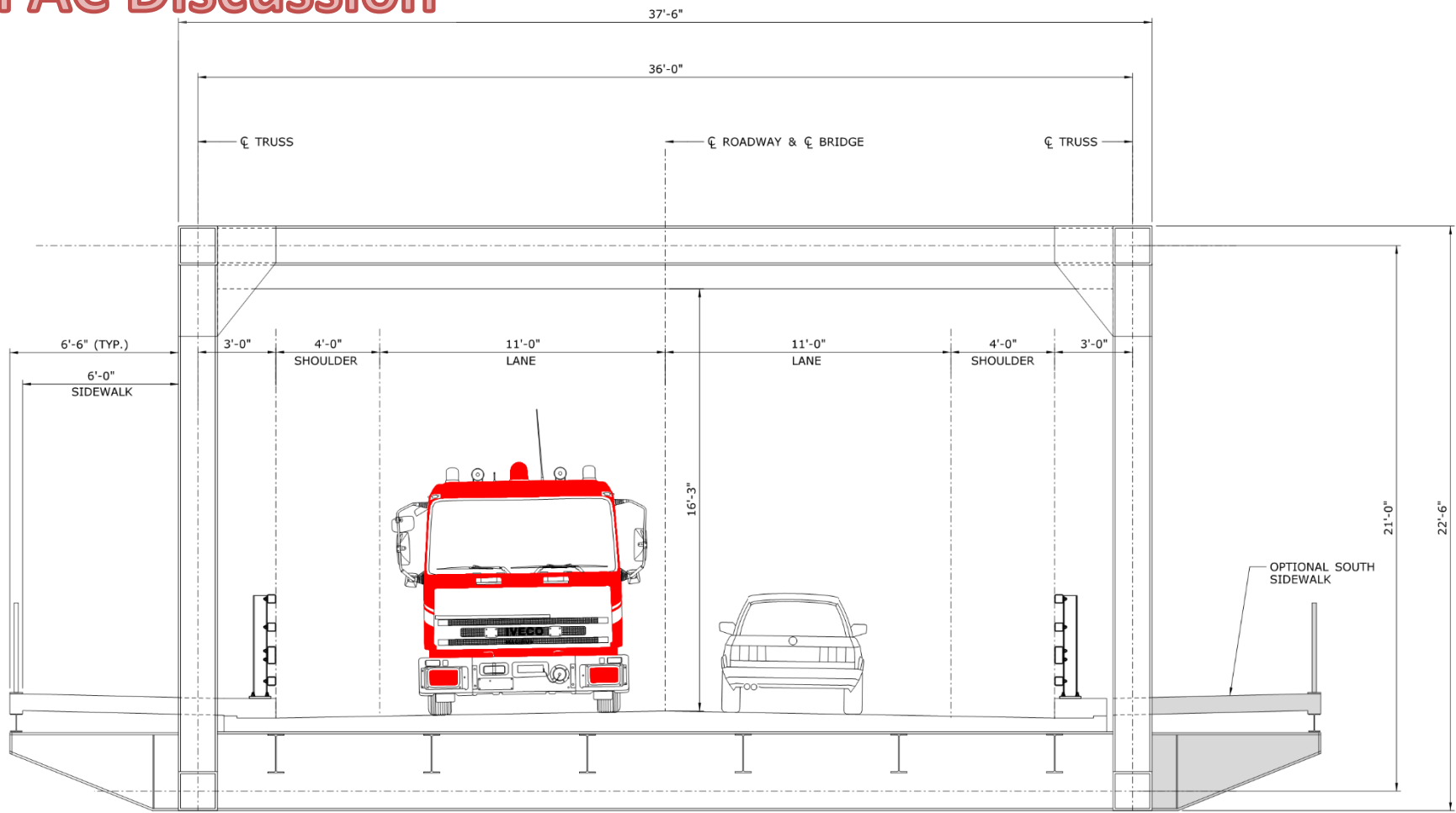
Draft Concept For PAC Discussion



Draft Concept For PAC Discussion



Draft Concept For PAC Discussion



SWING SPAN SECTION
PARALLEL OFF-ALIGNMENT BRIDGE REPLACEMENT CONCEPT

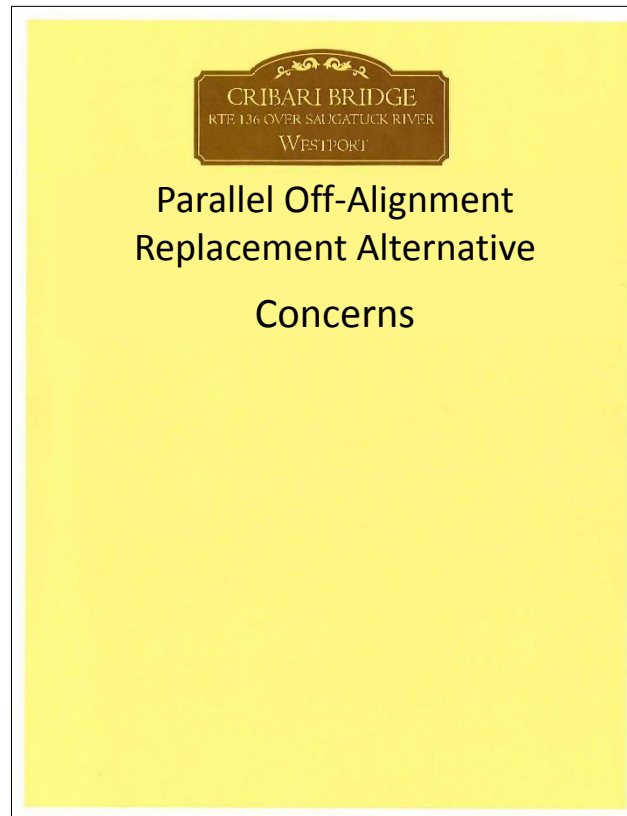
SCALE: $\frac{3}{8}$ " = 1'-0"



CRIBARI MEMORIAL BRIDGE Workshop



**Given the information you have about the Parallel Off-alignment Replacement Alternative, what are your concerns?
*How will this alternative affect the group you represent?***



If the Parallel Off-alignment Replacement Alternative were to proceed, what would you do to solve the concerns you identified?

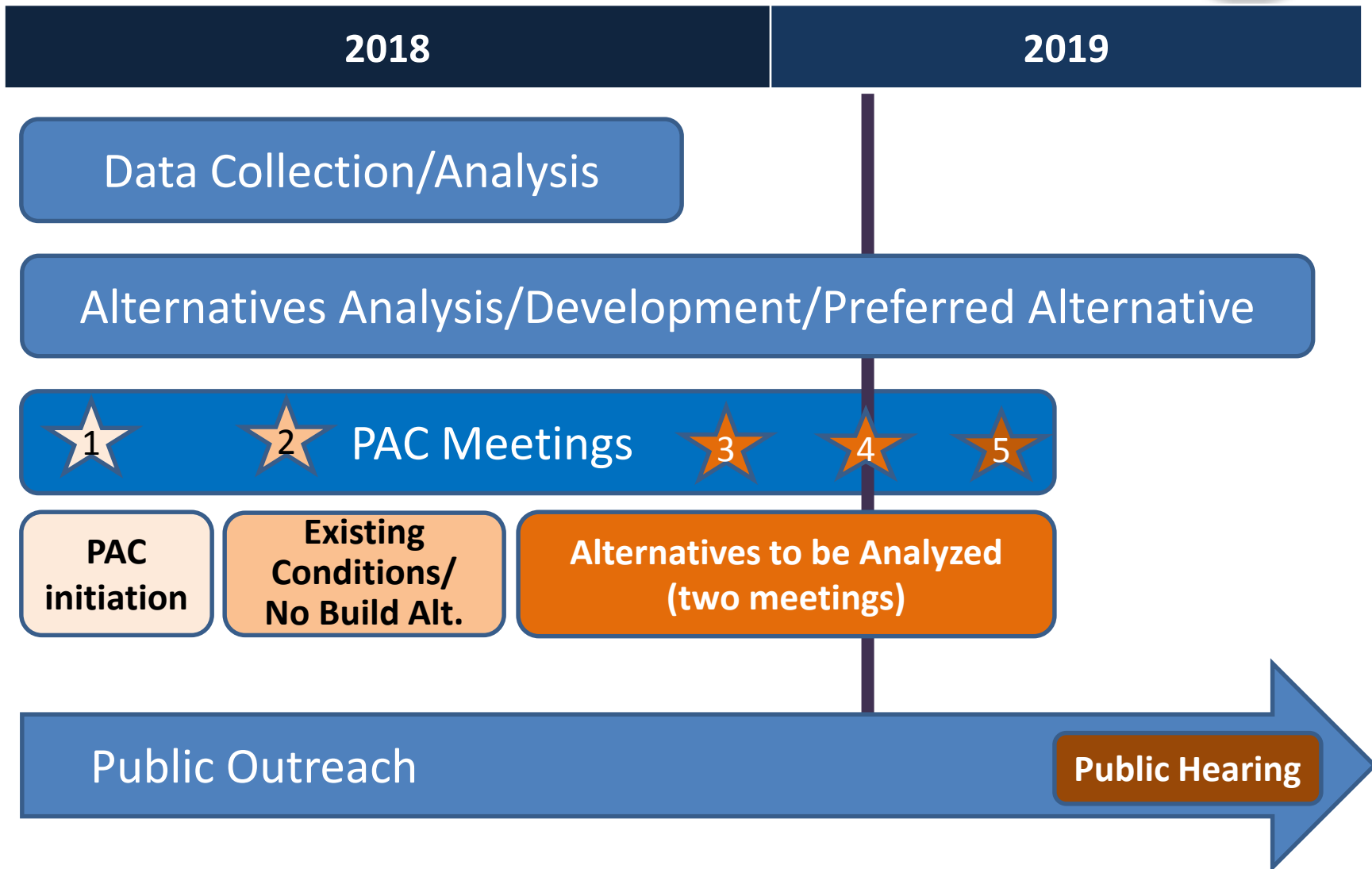


Parallel Off-Alignment
Replacement Alternative
Solving Concerns You Identified



CRIBARI MEMORIAL BRIDGE

Next PAC Meeting





**Thank you for your
participation**